

CLAIMS

1. A reception apparatus comprising:

5 a gain estimation section that estimates a gain for amplifying a received signal in a predetermined reception period to a predetermined reference value for each time slot before said reception period;

10 a gain control section that selects a maximum gain from gains for respective time slots estimated by said gain estimation section and performs gain control over the received signal; and

15 a voltage calibration section that calibrates offset voltage of the received signal before said reception period at said maximum gain selected by said gain control section.

2. The reception apparatus according to claim 1, wherein said gain estimation section estimates said gain for amplifying a received signal of the same frequency
20 in said reception period made up of consecutive time slots to said reference value.

3. The reception apparatus according to claim 1, further comprising a reception quality measurement
25 section that finds a measurement value indicating reception quality from a received signal,

wherein said gain estimation section estimates said

gain based on transmit power information comprising information indicating transmit power of each time slot at a communicating party and said measurement value.

5 4. The reception apparatus according to claim 3,
wherein, when a difference between an average gain
obtained by averaging said gains and a minimum gain out
of said gains is equal to or above a first threshold value
in said reception period, said gain estimation section
10 estimates said gain by excluding said measurement value
of the time slot with said minimum gain.

5. The reception apparatus according to claim 3,
wherein, when a difference between said maximum gain and
15 the minimum gain out of said gains is equal to or above
a second threshold value in said reception period, said
gain estimation section estimates said gain by excluding
said measured value of the time slot with said minimum
gain.

20

6. The reception apparatus according to claim 3,
wherein said gain estimation section subtracts the
transmit power of said transmit power information from
said measurement value for each time slot and estimates
25 the transmit power of each time slot and also estimates
said gain for amplifying the received signal with the
estimated transmit power to said reference value.

7. The reception apparatus according to claim 3, wherein said gain estimation section sets a gain for amplifying a received signal to a predetermined reference value through a plurality of stages for each of said stages during said reception period and sequentially sets gains such that the gain in an earlier one of two consecutive stages is greater than or equal to the gain in a later one of said consecutive stages, and

10 said gain control section performs gain control of a received signal for each of said stages at a gain for each of said stages set by said gain estimation section during said reception period.

15 8. A communication terminal apparatus provided with a reception apparatus, said reception apparatus comprising:

20 a gain estimation section that estimates a gain for amplifying a received signal in a predetermined reception period to a predetermined reference value for each time slot before said reception period;

25 a gain control section that selects a maximum gain from gains for respective time slots estimated by said gain estimation section and performs gain control over the received signal; and

 a voltage calibration section that calibrates offset voltage of the received signal before said

reception period at said maximum gain selected by said gain control section.

9. A reception method comprising steps of:

5 estimating a gain for amplifying a received signal in a predetermined reception period to a predetermined reference value for each time slot before said reception period;

 selecting a maximum gain from gains for respective
10 estimated time slots and performing gain control over the received signal; and

 calibrating offset voltage of the received signal before said reception period at the selected maximum gain.

15 10. A semiconductor integrated circuit apparatus comprising:

 a gain estimation circuit that estimates a gain for amplifying a received signal in a predetermined reception period to a predetermined reference value for each time
20 slot before said reception period;

 a gain control circuit that selects a maximum gain from gains for respective time slots estimated by said gain estimation circuit and performs gain control over the received signal; and

25 a voltage calibration circuit that calibrates offset voltage of the received signal before said reception period at said maximum gain selected by said

2F04189-PCT

45

gain control circuit.